FIG. 21B depicts a (1 2 3) permutation on an 8×8 exchange;

FIG. 21C depicts a (3 1) permutation on an 8×8 exchange;

FIG. 21D depicts a combined (1 4)(2 3) permutation on an 8×8 exchange;

FIG. 22 depicts a network expressed as $[id : (4\ 3\ 2\ 1) : (1\ 4\ 2\ 3) : (3\ 4) : id]_4$;

FIG. 23 depicts a network expressed as $[: (3\ 2\ 1) : (3\ 2\ 1) : ]_3$;

FIG. 24 depicts a network expressed as $[: (3\ 4) : (1\ 4) : (4\ 3\ 2\ 1) : ]_4$ which is not routable;

FIG. 25 depicts a network expressed as $[: (2\ 3) : (1\ 3) : (3\ 2\ 1) :]_3$ which is one network comprising part of the network of FIG. 24;

FIG. 26 depicts the same network of FIG. 25 comprising another part of the network of FIG. 24;

FIG. 27 depicts a graphical manner for obtaining the trace and the guide of the 16×16 banyan-type network $[id : (3\ 4) : (1\ 4) : (2\ 4) : id]$;

FIG. 28A summarizes the paths of FIG. 27 to generate the trace;

FIG. 28B summarizes the paths of FIG. 27 to generate the guide;

FIG. 29 depicts a route through a 16×16 banyan-type network $[id : (3\ 4) : (1\ 4) : (2\ 4) : (4\ 3\ 2\ 1)]_4$ from the origination address 1100 to the destination address 1110;

FIG. 30A summarizes the paths of FIG. 24 to generate the trace;